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Preliminary Amendment filed herewith

IN THE CLAIMS

Please amend the claims as follows:

Claim 1-55 (Canceled).

Claim 56 (Currently Amended): A magnetic memory device manufacturing method,

comprising:

forming a first wiring[[,]] having at least either of a lower surface and two side

surfaces of which is covered with a first yoke main body;

forming, on the first wiring, a magneto-resistance element which is sandwiched

between first and second layers;

forming an insulating film on the first wiring and the second layer;

forming a magnetic film on the insulating film;

patterning the magnetic film;

removing part of the second layer, the magnetic film, and the insulating film on the

magneto-resistance element to form first to fourth yoke tips from the magnetic film in self-

alignment with the magneto-resistance element;

forming second wiring on the second layer and the first to fourth yoke tips; and

forming a second yoke main body which covers at least either of an upper surface and

two side surfaces of the second wiring.

Claim 57 (Currently Amended): A magnetic memory device manufacturing method,

comprising:

forming a first wiring[[,]] having at least either of a lower surface and two side

surfaces of which is covered with a first yoke main body;

forming, on the first wiring, a magneto-resistance element which is sandwiched

between first and second layers;

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forming an insulating film on the first wiring and the second layer;

forming a magnetic film on the insulating film;

removing part of the second layer, the magnetic film, and the insulating film on the magneto-resistance element;

patterning the magnetic film to form first to fourth yoke tips from the magnetic film in self-alignment with the magneto-resistance element;

forming second wiring on the second layer and the first to fourth yoke tips; and forming a second yoke main body which covers at least either of an upper surface and two side surfaces of the second wiring.

Claim 58 (Currently Amended): The method according to claim 56, <u>further</u> comprising:

removing wherein part of the second layer, the magnetic film, and the insulating film on the magneto-resistance element are removed using either of etch-back and CMP.

Claim 59 (Currently Amended): The method according to claim 56, <u>further</u> comprising:

removing wherein part of the second layer, the magnetic film, and the insulating film on the magneto-resistance element are removed until surfaces of the second layer, the insulating layer, and the magnetic layer become flat.

Claim 60 (Currently Amended): The method according to claim 56, <u>further</u> comprising:

<u>leaving wherein</u> a step portion is left on a surface of the magnetic film when part of the second layer, the magnetic film, and the insulating film on the magneto-resistance element are removed.

Claim 61 (Currently Amended): The method according to claim 56, further comprising:

forming a mask layer after forming the magnetic film on the insulating film; patterning the mask layer; and patterning the magnetic layer using the patterned mask layer.

Claim 62 (Currently Amended): The method according to claim 56, <u>further</u> <u>comprising:</u>

forming wherein the first and second yoke tips are formed to contact the second yoke main body and be spaced apart from the first yoke main body.

Claim 63 (Currently Amended): The method according to claim 56, <u>further</u> <u>comprising:</u>

forming wherein the first and second yoke tips are formed to be magnetically coupled to the second yoke main body.

Claim 64 (Currently Amended): The method according to claim 56, <u>further comprising:</u>

forming wherein the third and fourth yoke tips are formed to contact the first yoke main body and be spaced apart from the second yoke main body.

Claim 65 (Currently Amended): The method according to claim 56, <u>further</u> comprising:

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forming wherein the third and fourth yoke tips are formed to be magnetically coupled

to the first yoke main body.

Claim 66 (Original): The method according to claim 56, further comprising:

patterning wherein the magnetic film is patterned to separate the first to fourth yoke

tips from each other.

Claim 67 (Currently Amended): The method according to claim 56, further

comprising:

forming wherein the first to fourth yoke tips are formed to make distances between

the first to fourth yoke tips and the magneto-resistance element equal to distances between

the first to fourth yoke tips and the first wiring.

Claim 68 (Currently Amended): The method according to claim 56, further

comprising:

forming wherein the first to fourth yoke tips are formed to make distances between

the first to fourth yoke tips and the magneto-resistance element equal to each other.

Claim 69 (Currently Amended): The method according to claim 56, further

comprising:

forming wherein the first to fourth yoke tips are formed to make a distance between

the magneto-resistance element and the first yoke main body equal to a distance between the

magneto-resistance element and the second yoke main body.

Claim 70 (Original): The method according to claim 56, wherein the

magneto-resistance element includes an MTJ element formed from a first magnetic layer, a

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second magnetic layer, and a nonmagnetic layer sandwiched between the first and second

magnetic layers.

Claim 71 (Currently Amended): The method according to claim 56, further

comprising, wherein when the first and second yoke tips are formed on two sides of a long

direction of the magneto-resistance element[[,]]:

forming the first to fourth yoke tips are formed to make distances between the first

and second yoke tips and the magneto-resistance element shorter than distances between the

third and fourth yoke tips and the magneto-resistance element.

Claim 72 (Currently Amended): The method according to claim 56, further

comprising, wherein when the first and second yoke tips are formed on two sides of a long

direction of the magneto-resistance element[[,]]:

making a film thickness of the insulating film on side surfaces of the

magneto-resistance element facing the first and second yoke tips are made smaller than a film

thickness of the insulating film on side surfaces of the magneto-resistance element facing the

third and fourth yoke tips by moving a substrate in a direction perpendicular to the long

direction when forming the insulating film by sputtering.

Claim 73 (Currently Amended): The method according to claim 56, <u>further</u>

comprising, wherein when the first and second yoke tips are formed on two sides of a long

direction of the magneto-resistance element[[,]]:

forming the first to fourth yoke tips are formed to make aspect ratios of the first and

second yoke tips lower than aspect ratios of the third and fourth yoke tips.

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Claim 74 (Currently Amended): The method according to claim 56, <u>further</u> comprising, wherein when the second yoke main body is formed on two sides of a long direction of the magneto-resistance element[[,]]:

forming the first and second yoke main bodies are formed to make a distance between the second yoke main body and the magneto-resistance element shorter than a distance between the first yoke main body and the magneto-resistance element.

Claim 75 (Original): The method according to claim 56, <u>further comprising</u>:

<u>patterning</u> wherein the magnetic film is patterned to continuously form the first to fourth yoke tips around the magneto-resistance element.

Claim 76 (Currently Amended): A magnetic memory device manufacturing method, comprising:

forming a first wiring[[,]] having at least either of a lower surface and two side surfaces of which is covered with a first yoke main body;

forming an element material layer from a magneto-resistance element material sandwiched between first and second layers on the first wiring;

forming a first material layer having a magneto-resistance element shape on the element material layer;

forming a second material layer on the first material layer and the element material layer;

forming a third material layer on the second material layer;

planarizing the second and third material layers until the first material layer is exposed;

removing the second material layer exposed between the first and third material layers to expose the element material layer;

selectively removing the element material layer to form a magneto-resistance element and a yoke tip from the element material layer;

forming second wiring on the magneto-resistance element; and

forming a second yoke main body which covers at least either of an upper surface and two side surfaces of the second wiring.

Claim 77 (Original): The method according to claim 76, further comprising:

forming wherein the first and second yoke main bodies are formed from a layered structure of a magnetic film.

Claim 78 (Original): The method according to claim 76, further comprising:

<u>forming wherein</u> the first and second material layers are formed from different materials.

Claim 79 (Original): The method according to claim 76, further comprising:

forming wherein the first and third material layers are formed from a same material.

Claim 80 (Original): The method according to claim 56, wherein the first and second layers include metal layers.

Claim 81 (Original): The method according to claim 56, wherein either of the first and second layers includes a diode layer.